000000000 000000000 000 000 000 000 00	000 000 000 000 000 000 000 000 000	PPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPP		000 000 000 000 000 000 000 000 000 00	000000 000000 000000 000 000 000 000 0	MMM MMM MMMMMM MMMMMM MMM MMM MMM MMM MMM MMM MMM MMM MMM MMM MMM MMM	MMM MMM MMM MMM MMM MMM MMM
					000		
000	000	PPP PPP	000	000	000 000 000	MMM	MMM
00000000	0	PPP	0000000	000	000000 000000 000000	MMM MMM MMM	MMM MMM MMM

_\$2

Sym

ASC

BOD BOD BOD BOD BOD BUG BYP CAN CAN CHE

CLU

000000 00	PPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPP	RRRRRRRR RR		NN NN NN NN NN NN NN NN NN NN NN NN NN	AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA	BBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBB	
		\$					

νÖ

V03-002 CWH3002

CW Hobbs

Various and sundry things to make OPCOM distributed

30-Jul-1983

(1)

OP

VO

OP

```
K 3
16-Sep-1984 01:41:12
14-Sep-1984 12:50:52
OPCSOPRENABLE
V04-000
                                                                                                                                            VAX-11 Bliss-32 V4.0-742
COPCOM.SRCJOPRENABLE.B32:1
                                                                                                                                                                                                      Page
                                                                                                                                                                                                              (2)
                                      GLOBAL ROUTINE OPRENABLE_HANDLER (BUFFER_DESC) : NOVALUE =
                         0112
0113
0114
0115
0116
0117
0118
0119
    Functional description:
                                                   This routine is the handler for all OPRENABLE messages received by OPCOM.
                                         Input:
                                                  BUFFER_DESC: The address of a quadword buffer descriptor that describes the buffer containing the message.
                         0120
0121
0123
0123
0124
0126
0127
0128
0133
0133
0133
0137
0138
0139
0140
                                         Implicit Input:
                                                  None.
                                         Output:
                                                  None.
                                         Implict output:
                                                   Some accounting data will be updated
                                                   to reflect the receipt of the message.
                                         Side effects:
                                                  None.
                                         Routine value:
                         0141
                         0142
                                                  None.
                         0144
                                      BEGIN
                                                                                                                   ! Start of OPRENABLE_HANDLER
                         0146
0147
                                      MAP
                         0148
0149
0150
0151
0153
0154
0156
0157
0158
0159
                                                  BUFFER_DESC
                                                                            : $ref_bblock;
                                      LOCAL
                                                                              $desc_block,
$bblock [OPC$K_MAXREAD],
VECTOR [5,LONG],
$ref_bblock,
VECTOR [3],
                                                  STATUS_BESC
STATUS_BUF
MESSAGE_VECTOR
                                                                                                                     Descriptor for status message .! Buffer for status message
                                                                                                                      Message vector
                                                                                                                     Pointer to user request text
Arguement list
1 if ENABLE, 0 if DISABLE
                                                   MSG
                                                  ARG LIST
ENABLE FLAG
FULL_DISABLE
FULL_ENABLE
FOUND
                                                                                LONG.
                                                                                LONG.
                                                                                                                      Boolean
                                                                                LONG.
                                                                                                                      Boolean
                                                                                LONG.
                                                                                                                      Boolean
                         0160
                                                   LOST_COVERAGE
                                                                                LONG.
                                                                                                                      Boolean
                                                                               $ref_bblock,
$ref_bblock,
$ref_bblock,
                            61
                                                   OCD
                                                                                                                      OCD structure
                                                  ROCB
OPER ROCB
STATUS
                                                                                                                      Request Context Block
                                                                                                                      Known operator RQCB
                         0164
0165
                                                                             : LONG:
                                      FULL_ENABLE = FALSE;
```

OP

VO

VO

VO

20

```
OP(
```

```
OPCSOPRENABLE V04-000
                                                                                                    16-Sep-1984 01:41:12
14-Sep-1984 12:50:52
                                                                                                                                         VAX-11 Bliss-32 V4.0-742
COPCOM.SRCJOPRENABLE.B32:1
                                                                                                                                                                                                 Page
                                     (NOT .$bblock [RQCB [RQCB L PRIVMASK1], PRV$V OPER])))
OR ((.RQCB [RQCB L SENDERUIC] NEQ .RQCB [RQCB L UIC]) AND
(NOT .$bblock [RQCB [RQCB_L PRIVMASK1], PRV$V_OPER]))
    ! Issuing a request on another's behalf
! requires OPER privilege.
                                     THEN
                                           MESSAGE_VECTOR [0] = OPC$_ILLRQST;
                                                                                                                                         ! Set request status
                                        If an error was detected, notify the
                                        would-be operator and abort the request.
                                          .MESSAGE_VECTOR [0] NEQ 0
                                     THEN
                                           BEGIN
                                           FORMAT_MESSAGE (.RQCB, MESSAGE_VECTOR);
NOTIFY_OPERATOR (.RQCB);
DEALLOCATE_RQCB (.RQCB);
                                            RETURN:
                                           END:
                                        finish the request.
                         0300
                                     IF NOT .$bblock [RQCB [RQCB_L_RQ_OPTIONS], OPC$V_DISABLE]
                                     THEN
                                           BEGIN
                                              This is an enable request.
                                           ENABLE_FLAG = 1;
MESSAGE_VECTOR [O] = OPC$_TERMENAB;
IF NOT .FOUND
                                                                                                                ! Set bit value
                         0308
                                                                                                                ! Set message code
                         0309
0310
0311
0312
0313
                                            THEN
                                                 BEGIN
                                                    The operator is not known to OPCOM. An operator RQCB must be created and inserted onto the appropriate OCD
                         0314
                                                     operator list so the generalized ENABLE logic will work.
                         0316
0317
                                                 FULL_ENABLE = TRUE;
ALLOCATE_DS (RQCB_K_TYPE, OPER_RQCB);
CH$MOVE (RQCB_K_OVERLAY_SIZE,

RQCB [RQCB_T_OVERLAY], OPER_RQCB [RQCB_T_OVERLAY]);
OPER_RQCB [RQCB_L_OPTIONS] = 0;
OPER_RQCB [RQCB_L_RQ_OPTIONS] = 0;
OPER_RQCB [RQCB_L_ATTNMASK1] = 0;
OPER_RQCB [RQCB_L_ATTNMASK2] = 0;
I Zero mask
OPER_RQCB [RQCB_L_ATTNMASK2] = 0;
I Zero mask
                         0318
0319
                                                                                                                                            Clone a new RQCB
                                                                                                                                         ! Copy old RQCB
                         0329
0321
0322
0323
0324
0325
0327
                                                                                                                                           Zero option mask
Zero option mask
                                                                                                                                            Zero mask for enable
                                                                                                                                            Zero mask for enable
                                                     Insert the operator RQCB into the operator list in the appropriate OCD. If no OCD is found, then a new one must be created.
                         0328
0329
0330
                                                  IF NOT FIND_OCD (.RQCB [RQCB_B_SCOPE], .RQCB [RQCB_L_UIC], OCD)
```

OPC VO4

```
16-Sep-1984 01:41:12
14-Sep-1984 12:50:52
OPCSOPRENABLE
                                                                                                                                                                                                                                                         VAX-11 Bliss-32 V4.0-742
COPCOM.SRCJOPRENABLE.B32:1
                                                                                                                                                                                                                                                                                                                                                               Page
V04-000
                                                                             END:
                                                                  OCD = .OPER RQCB [RQCB_L_OCD];
RQCB [RQCB_L_OCD] = .OCD;
IF .FULL_ENABLE OR .FULL_DISABLE
THEN
                                                                               BEGIN
                                                                                    Send the ENABLE/DISABLE message to all CENTRAL operators
                                                                                  Send the ENABLE/DISABLE message to all CENTRAL operators connected to this OCD. Notify the requestor even if not a CENTRAL operator. If this is a full disable, explicitly notify this operator of the DISABLE. This is necessary because the operator is no longer on the OCD's operator list, and would not be notified otherwise. Note that the message is sent only if this is the initial ENABLE or a full DISABLE for this operator. Note that the request RQCB must be used instead of the operator RQCB to avoid a race condition when a user does an enable/disable and then implicitly disables the operator. This would cause the OPER RQCB to evaporate in the middle of the NOTIFY_LISTED_OPERATORS operation.
                                                                             RQCB [RQCB_L_ATTNMASK1] = OPC$M_NM_CENTRL;
RQCB [RQCB_L_ATTNMASK2] = 0;
RQCB [HDR V BRD] = TRUE;
MESSAGE_VECTOR [1] = 0;
MESSAGE_VECTOR [2] = RQCB [RQCB_L OPER_LEN];
MESSAGE_VECTOR [3] = .RQCB [RQCB_W USERNAMELEN];
MESSAGE_VECTOR [4] = RQCB [RQCB_T USERNAME];
FORMAT_MESSAGE (.RQCB, MESSAGE_VECTOR);
LOG_MESSAGE (.RQCB);
NOTIFY_LISTED_OPERATORS (.RQCB);
If .FUEL_DISABLE
THEN
NOTIFY_OPERATOR (.RQCB);
                                                                                          NOTIFY_OPERATOR (.RQCB);
                                                                         Since the operator status has changed, send an operator
                                                                        status message to the operator. This does not have to be done in the case of a full DISABLE.
                                                                         If the operator was implicitly disabled during a NOTIFY_LISTED_OPERATORS
                                                                        operation, then do not send the message, as it would cause the user to think that the enable operation had completed. This does not close the timing window, but only makes it's occurrance less annoying. A simple test for the implicit disable is to check the sequence number on the operator RQCB. If it is zero, it means that operator has been disabled,
                                                                        and the RQCB deallocated.
```

VO

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OPCSOPRENABLE V04-000
                                                                                                                                                                                                                        16-Sep-1984 01:41:12
14-Sep-1984 12:50:52
                                                                                                                                                                                                                                                                                                        VAX-11 Bliss-32 V4.0-742
COPCOM.SRCJOPRENABLE.B32:1
         IF (NOT .FULL_DISABLE) AND (.OPER_RQCB [RQCB_L_SEQNUM] NEQ 0)
                                                     THEN
                                                                                              BEGIN
                                                                                                     Create a buffer descriptor for the status message,
                                                                                                     format the message, and log it.
                                                                                             STATUS_DESC [0,0,32,0] = OPC$K_MAXREAD;

STATUS_DESC [DSC$A_POINTER] = STATUS_BUF;

MESSAGE_VECTOR [0] = OPC$_OPERSTS;

MESSAGE_VECTOR [1] = 0;

MESSAGE_VECTOR [2] = RQCB [RQCB_L_OPER_LEN];

MESSAGE_VECTOR [3] = STATUS_DESC;

IF INTERPRET_MASK (OPER_RQCB [RQCB_L_ATTNMASK1], STATUS_DESC, STATUS_DESC)
                                                                       STATUS DESC IN MESSAGE VECTOR MESSAGE VECTOR MESSAGE VECTOR MESSAGE VECTOR IF INTERPRET INTERPRE
                                                                                                           FORMAT_MESSAGE (.RQCB, MESSAGE_VECTOR);
LOG_MESSAGE (.RQCB);
NOTIFY_OPERATOR (.RQCB);
                                                                                                                                                                                                                                                                             ! Log the status message ! Send the message to the operator
                                                                                        Deallocate the RQCB. If this was a full enable, clear
                                                                                        the pointer to the operator device name, as both the
                                                                                        RQCB and the OPER_RQCB point to the same device name.
                                                                                        Deallocating the RQCB in this case would cause the OPER_RQCB
                                                                                        device name to evaporate.
                                                                                RQCB [RQCB L OPER PTR] = 0;
DEALLOCATE_RQCB (.RQCB);
                                                                                        If there was a potential loss of operator coverage,
                                                                                       check the remaining requests queued to this OCD.
                                                                                      The routine will cancel any requests that no longer
                                                                                      have operator coverage.
                                                                                              CHECK_OPER_COVERAGE (.OCD);
                                                                                                                                                                                                                                                  ! End of OPRENABLE_HANDLER
                                                                                                                                                                                                                                                         .TITLE
                                                                                                                                                                                                                                                                                   OPC$OPRENABLE
                                                                                                                                                                                                                                                                                    \V04-000\
                                                                                                                                                                                                                                                                                   RQCB_K_TYPE, MIN_SCOPE
MAX_SCOPE, ALLOCATE_DS
CHECK_OPER_COVERAGE
CHECK_REQUEST, CLUSMSG_CONV_CLM_RQCB
CLUSMSG_RQCB_SEND
                                                                                                                                                                                                                                                          .EXTRN
                                                                                                                                                                                                                                                          .EXTRN
                                                                                                                                                                                                                                                          .EXTRN
                                                                                                                                                                                                                                                          .EXTRN
                                                                                                                                                                                                                                                                                   CREATE OCD, DEALLOCATE MCB
                                                                                                                                                                                                                                                          .EXTRN
                                                                                                                                                                                                                                                          .EXTRN
                                                                                                                                                                                                                                                                                    DUMP_LOG_FILE, FIND_OCD
```

.EXTRN

**

Page

04

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					10	5-Sep-19	84 01:41 84 12:50	:12 VAX-11 Bliss-32 V4.0-742 Pa :52 COPCOM.SRCJOPRENABLE.B32;1	ige 10
							EXTRN EXTRN EXTRN EXTRN EXTRN EXTRN EXTRN EXTRN EXTRN	FIND OPERATOR, FORMAT MESSAGE INTERPRET MASK, LOG MESSAGE NOTIFY_LISTED OPERATORS NOTIFY_OPERATOR UPD_OPER_CONTEXT VALID_OPERATOR, WRITE_LOG_FILE GLOBAL_STATUS, EXE\$SETOPR SYS\$CMRNL	
							.PSECT	\$CODE\$,NOWRT,2	
			0	FFC	00000		.ENTRY	OPRENABLE_HANDLER, Save R2,R3,R4,R5,R6,R7,-	; 0110
0044	5B 5E 8F	000000000 F5CC	00 CE 59 BC	9E 9E 7C B1	00002 00009 0000E 00010		MOVAB MOVAB CLRQ CMPW	OPRENABLE_HANDLER, Save R2,R3,R4,R5,R6,R7,- R8,R9,R10,R11 EXE\$SETOPR, R11 -2612(SP), SP FULL_DISABLE abuffer_DESC, #68	0167 0172
0011	٠.	•	01	1E	00016		BGEQU	1\$: "
00006	CF 01	04	5E AC 02 50	DD B 84	00019	15:	PUSHL PUSHL CALLS BLBS	SP BUFFER DESC #2, CHECK REQUEST STATUS, 25	0179
	56		6E	00	00026 00027	2\$:	RET MOVL	ROCB, R6	: 0188
00006	CF 03	04	6E 56 AC 02 50 016C	DO DD FB E8	0002A 0002C 0002F 00034 00037	3\$:	PUSHL PUSHL CALLS BLBS BRW	R6 BUFFER_DESC #2, VACID_OPERATOR R0, 4\$ 22\$	
		04	AE	9F	0003A	45:	PUSHAB	OPER_RQCB	: 0200
0000G	CF 52 23		02 50 52	FB	0003F		PUSHL CALLS MOVL BLBC	#2, FIND OPERATOR RO, FOUND FOUND, 6\$	0208
08	AE 50 02	24 08 08	56 52 52 52 64 60 70 67	DO DO 91 12 B1 12	00044 00047 00048 00053 00057 00059 00060 00064 00068 0006D 00070 00075		BLBC MOVL CMPB BNEQ CMPW BNEQ CMPB CMPL BNEQ CMPL BNEQ CBC BICB2 BLBC BICB2 BICB2	FOUND, 6\$ 36(R6), OCD OCD, RO 11(RO), #2	0208 0211 0212
6A	A6	26	AO	BI	00059		CMPW	5\$ 38(RO), 106(R6)	: 0214
	03	0B	A0 07	91	00060	5\$:	CMPB	3\$ 11(RO), #3	: 0215
68	A6	24	AO	D1 12	00064		CMPL	6\$ 36(RO), 104(R6)	: 0216
		18	CA	70	0006B	6\$:	CLRQ	MESSAGE_VECTOR	: 0223
78 58	A6		01	E1 8A	00070		BBC BICB2	#1, 120(R6), 7\$ #2, 88(R6)	: 0231
34 50	1E A6 A6 50	50	AE 01 02 A6 06 01 56	E1 8 9 E 8 D D 5	00079 00070 00082 00086 00089 00080 00081 00093	7\$:	BLBC BBS BICB2	MESSAGE VECTOR #1, 120(R6), 7\$ #2, 88(R6) 93(R6), 8\$ #6, 52(R6), 8\$ #1, 93(R6) R6, R0 92(R0) 8\$	0223 0231 0233 0239 0240 0251
	,,	50	OA	05	00089		MOVL TSTL	92(RO)	32,33
		60	0D A6 08 8F	D5 12	0008E		BNEQ TSTL BNEQ MOVL	70(NO)	
18	AE	0005807C	8F	00	00093		MOVL	#360572, MESSAGE_VECTOR	0257

OP

MOVL

MOVAB MOVL PUSHAB

PUSHL

70

00

VO

PCSOPRENABLE 04-000							16-Sep- 14-Sep-	1984 01:41 1984 12:50	:12 :52	VAX-11 Bliss-32 V4.0-742 COPCOM.SRCJOPRENABLE.B32;1	Page	(2)
		0000	00000G 00)	92	FB 00	17E 100.	CALLS	#2 24\$	SYS\$CMKRNL		0701
			18 A	0005807C	50FEE6026161	E9 00 00 00 04 00 9F 00	185 19\$: 187 20\$: 18A 192 195 21\$: 198 19A 19F	CALLS BRB BLBC MOVL CLRL PUSHAB PUSHL CALLS PUSHL CALLS PUSHL CALLS RET	RO, #360 MESS	23\$ 0572, MESSAGE_VECTOR GAGE_VECTOR+4 FORMAT_MESSAGE		0301 0342 0348 0349 0350
			0000G CI	18	56 02	DD 00 FB 00	195 21\$: 198	PUSHL	MESS R6	GAGE_VECTOR		0350
			0000G CI		56	DD 00 FB 00	19F	PUSHL	R6	NOTIEV OPERATOR		035
			0000G CI		56	DD 00 FB 00	1A6 27.5:	PUSHL	R6	NOTIFY_OPERATOR DEALLOCATE_RQCB		0352
						04 00	1AD 1AE 238:	RET	FNAR	RIF FLAG		0344
			18 AF	00058011	58 86 50 00 00 00 00 00 00 00 00 00 00 00 00	D4 00 D0 00 D0 00 DD 00	1A6 27.\$: 1A8 1AD 1AE 23\$: 1B0 1B8 24\$: 1BB 1BD 1BF	CLRL MOVL MOVL PUSHL PUSHL MNEGL CALLS MOVL PUSHL	#360 RQCB R2	3. R2		0344 0360 0361 0368
			0000G C	3 04	01 03 AF	DD 00 CE 00 FB 00 DO 00	18D 18F 1C2 1C7	MNEGL CALLS MOVI	#3,	CLUSMSG_RQCB_SEND		0379
			71		53 A2	DO 00 DD 00 70 00	1CB 1CD	PUSHL	R3 92(R	(2)(SP)		
7E	58	A2	0000G C		00	EF 00	101 107	EXTZV	#0.	#1, 88(R2), -(SP) UPD OPER CONTEXT		037
		06 01	58 A			DO 00 E1 00	1C7 1CB 1CD 1D1 1D7 1DC 1DF	MOVL BBC	RO.	LOST_COVERAGE 88(RZ), 25\$		0384
58 A3		01	01	50	58 A3	FO 00	1E4 1EA 25\$: 1ED	INSV	ENAB 92 (R	BLE_FLAG, #1, #1, 88(R3)		0384 0386 039
				60	55 A3	12 00 05 00 12 00	1ED 1EF	TSTL	26\$ 96(R	(3)		
50	.,		59		01	12 00 00 00 FF 00	164	MOVL	26 5	FULL_DISABLE_		0394
54 A3 54 A3	54	A2 01 01	59 01 01		50	FO 00	1FD	INSV	RO.	#1, 84(R2), R0 #1, #1, 84(R3)		
74 A3			0000G CF	54	52	DD 00	20A	PUSHL	R2	DEALLOCATE DOCD		039
			68	04	63	OF 00	211	REMQUE	(R3)	, RQCB		0398 0399 0400
			08 A)	6E	DO 00	218 218	MOVL	ROCB	RO OCD		0400
			08 AE	24 08 46	AE	DD 00 FB 00 DF 00 DO 00 DO 00 DO 00 B7 00 C1 00	220	MOVL	OCD.	RÓ		0401
	10	AE	OC AE	00000070	01 8F	DO 00	227 228	MOVL ADDL3	#124	ARG LIST		0402
				14 00	AE	04 00 9F 00	235 238	CLRL	ARG_	LIST+8		0402 0403 0404 0405
		0000	000006 00		5B 02	DD 00 FB 00	23B 23D	PUSHL	R11-	SYS\$CMKRNL		
			08 AE	24 08	058553011022213EE0E0E0FEEB2E3EA9	7D 00	244 26 \$:	MOVE	ROCB 36(R	3), OCD		0409 0408 0409 0410
			24 A	08	AE 5A	DO 00 E8 00	24C 251	BLBS	FULL	36(R2) ENABLE, 27\$		0409
			5C A		59 01 02	DD 00 FB 00 7D 00 DO 00 E8 00 E9 00 7D 00 88 00	1EF 1F2 1F7 1F7 120A 2011 2014	MOVQ EXTZV CALLS MOVL BBCV INSTL BNSTL BNSTL BNOVL EXTZV INSSH EXTZV PUSHLS MOVL MOVL MOVL MOVL MOVL MOVL MOVL MOVL	FULL	R_RQCB, R3 R2), -(SP) W1, 88(R2), -(SP) UPD_OPER_CONTEXT LOST_COVERAGE 88(R2), 25\$ BLE_FLAG, W1, W1, 88(R3) R3) FULL_DISABLE W1, 84(R2), R0 W1, W1, 84(R3) R2), W0, W1, 84(R3) DEALLOCATE_RQCB RQCB, RQCB RQCB, RQCB RO		0426
			20 A		02	88 00	238	81285	WZ.	4U(R2)	•	0421

OPO

lt.				15	-Sep-1 -Sep-1	984 01:41 984 12:50	:12 VAX-11 Bliss-32 V4.0-742 :52 COPCOM.SRCJOPRENABLE.B32;1	Page 13 (2)
20 24 28	AE AE AE	1 C 7 C 7 4 3 C 1 8	AE AZZ	0025f 9E 00267 9E 00276 9F 00276 PF 00276 PB 00278 PB 00282 PB 00284 PB 00288 PB 00286 PB 00296 13 00296 13 00298 PE 00281 PE 00288 PE 00288		CLRL MOVAB MOVZWL MOVAB PUSHAB	MESSAGE_VECTOR+4 124(R2), MESSAGE_VECTOR+8 116(R2), MESSAGE_VECTOR+12 60(R2), MESSAGE_VECTOR+16 MESSAGE_VECTOR	; 0429 ; 0430 ; 0431 ; 0432 ; 0433
0000G	CF		ÖŽ	FB 00276		PUSHL	R2 #2, FORMAT_MESSAGE R2	
0000G	CF		01	DD 0027B FB 0027D		CALLS	#1, LOG_MESSAGE	0434
0000G	CF		01	DD 00282 FB 00284		PUSHL	R2	: 0435
	CF OA		59	E9 00289		PUSHL CALLS PUSHL CALLS BLBC PUSHL	#1, NOTIFY_LISTED_OPERATORS FULL_DISABLE, 28\$: 0436 : 0438
0000G	CF 4E	ОС	59 52 01 59 A3 49	DD 00282 FB 00284 E9 00289 DD 0028C FB 0028E E8 00293 D5 00296 13 00299	28\$:	BLBS	#1, NOTIFY OPERATOR FULL DISABLE, 29\$ 12(R3)	0453
F8	AD AD	0A00	8F	3C 0029B		MOVZWL	#2560, STATUS DESC	0460
FC 18	AE	00058003	8F	DO 002A6		MOVAB	#360643, MESSAGE_VECTOR	: 0461 : 0462
20 24	AE AE	7C F8 F8	AD AD AD	9E 002B6 9F 002BB		CLRL MOVAB MOVAB PUSHAB PUSHAB	12(R3) 29\$ #2560, STATUS_DESC STATUS_BUF, STATUS_DESC+4 #360643, MESSAGE_VECTOR MESSAGE_VECTOR+4 124(R2), MESSAGE_VECTOR+8 STATUS_DESC, MESSAGE_VECTOR+12 STATUS_DESC STATUS_DESC 92(R3) #3, INTERPRET_MASK R0, 29\$; 0463 ; 0464 ; 0465 ; 0466
0000G	CF 18	F8 50 18	8EEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEE	EU 00360		PUSHAB CALLS BLBC PUSHAB	MESSAGE VECTOR	0469
0000G	CF		95	FB 002D1		PUSHL	R2 #2, FORMAT_MESSAGE R2	
0000G	CF			DD 002D6 FB 002D8		PUSHL	#1, LOG MESSAGE	0470
0000G			52	DD 002DD		PUSHL	82	0471
	CF 04	0800	01 52 01 5A C2 52	9F 002CC DD 002CF FB 002D1 DD 002D6 FB 002D8 DD 002DD FB 002DF E9 002E4 D4 002E7 DD 002EB	29\$: 30\$:	BLBC CLRL PUSHL	#1, NOTIFY OPERATOR FULL ENABLE, 30\$ 128(R2) R2	0481 0483 0484
0000G	CF 08		Õ1	LD OOFED	300.	CALLS	#1, DEALLOCATE_RQCB	:
		08	01 54 AE 01	DD 002F5		BLBC PUSHL	LOST_COVERAGE, 31\$: 0491 : 0493
0000G	CF		01	FB 002F8 04 002FD	31\$:	RET	#1, CHECK_OPER_COVERAGE	0495

OP

; Routine Size: 766 bytes, Routine Base: \$CODE\$ + 0000

OPCSOPRENABLE V04-000

Sref_bblock,

: \$ref_bblock.

Request Context Block

Known operator RQCB

RQCB

OPER_ROCB

OP

VO

Page

THEN

BEGIN

This is an enable request.

ENABLE_FLAG = 1;

! Set bit value

coverage on any outstanding requests.

667

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OP

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OP
VO
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OPCSOPRENABLE
                                                                                                                                                                                                                             16-Sep-1984 01:41:12
14-Sep-1984 12:50:52
                                                                                                                                                                                                                                                                                                               VAX-11 Bliss-32 V4.0-742 COPCOM.SRCJOPRENABLE.B32;1
                                                                                                                                                                                                                                                                                                                                                                                                                                            Page
V04-000
                                                                                 LOST_COVERAGE = UPD_OPER_CONTEXT (.$bblock [RQCB [RQCB L_RQ_OPTIONS], OPC$V_DISABLE],
.RQCB [RQCB_L_ATTNMASKT],
.RQCB [RQCB_L_ATTNMASK2],
.OPER_RQCB
         669
670
671
672
673
674
675
678
679
                                                                                         Set the PERMOPER bit as desired.
                                                       0674
0675
0676
0677
0678
0679
                                                                                            .$bblock [RQCB [RQCB_L_RQ_OPTIONS], OPC$V_PERMOPER]
                                                                                                $bblock [OPER_RQCB [RQCB_L_RQ_OPTIONS], OPC$V_PERMO@ER] = .ENABLE_FLAG;
         680
681
682
683
684
685
686
687
688
689
                                                                                         If the OPER_RQCB attention mask went to 0, then disable the operator terminal.
                                                       0681
0682
0683
0684
0685
0686
0687
0688
0689
                                                                                   IF (.OPER_RQCB [RQCB_L_ATTNMASK1] EQL 0) AND (.OPER_RQCB [RQCB_L_ATTNMASK2] EQL 0)
                                                                                  THEN
                                                                                                BEGIN
                                                                                               FULL_DISABLE = TRUE;
$bblock [OPER_RQCB [RQCB_L_OPTIONS], OPC$V_NOBRD] = .$bblock [RQCB [RQCB_L_OPTIONS], OPC$V_NOBRD];
$bblock [OPER_RQCB [RQCB_L_OPTIONS], OPC$V_NOLOG] = .$bblock [RQCB [RQCB_L_OPTIONS], OPC$V_NOLOG];
                                                                                               DEALLOCATE RQCB (.RQCB); | Get removed | Get
                                                                                                                                                                                                                                                               Get rid of the old RQCB
                                                                                                                                                                                                                                                               Remove operator RQCB from list
        691
692
693
694
695
696
                                                                                                                                                                                                                                                               Copy the RQCB address
                                                                                                                                                                                                                                                               Get OCD address
                                                       0691
                                                       0692
0693
                                                                                                END:
                                                                                 OCD = OPER RQCB [RQCB_L_OCD];
RQCB [RQCB_L_OCD] = OCD;
IF .FULL_ENABLE OR .FULL_DISABLE
THEN
                                                       0694
                                                       0695
                                                      0696
0697
0698
0699
0700
0701
0702
        698
699
700
701
702
703
704
705
706
707
708
709
710
                                                                                                BEGIN
                                                                                                       Send the ENABLE/DISABLE message to all CENTRAL operators connected to this OCD. Do not notify
                                                                                                       the requestor, she is on another node.
                                                                                              RQCB [RQCB_L_ATTNMASK1] = OPC$M_NM_CENTRL;
RQCB [RQCB_L_ATTNMASK2] = 0;
RQCB [HDR_V_BRD] = TRUE;
MESSAGE_VECTOR [1] = 0;
MESSAGE_VECTOR [2] = RQCB [RQCB_L_OPER_LEN];
MESSAGE_VECTOR [3] = .RQCB [RQCB_W_USERNAMELEN];
MESSAGE_VECTOR [4] = RQCB [RQCB_T_USERNAME];
FORMAT_MESSAGE (.RQCB, MESSAGE_VECTOR);
LOG_MESSAGE (.RQCB);
NOTIFY_LISTED_OPERATORS (.RQCB);
END:
         711
712
713
714
715
716
717
718
719
721
723
724
725
                                                       0710
                                                                                                END:
                                                                                         Deallocate the RQCB. If this was a full enable, clear the pointer to the operator device name, as both the RQCB and the OPER_RQCB point to the same device name. Deallocating the RQCB in this
                                                                                         case would cause the OPER_RQCB device name to evaporate.
                                                                                            .FULL_ENABLE
                                                       0720
                                                                                  THEN
                                                                                  PEALLOCATE_ROCB (.ROCB);
```

V04	\$0PR -000	ENAB	LE	072	4 2	!!	f th	ere	was	a po	tent	ial l	oss	of			84 01:41 84 12:50	
	726 727 728 729 730 731 732 733			072 072 072 072 072 073	5678901		LOS N CHE	T_C0	VERA	GE		el an		que	sts th			ck the remaining requests queued to this OCD. We operator coverage. OPRENABLE_CLM_HANDLER
20 72	45 6D	4C 6C	42 63	41	4E 6E	45 00 69	52 68 20	50 63 63	4F 74 69	5F 61 75 00	5F 6D 20 00	01 64 62 01	0E00 0000	62 71 12	00000 0000F 00018 00020 0002F 00034 00038		.LONG .ADDRES .ASCII	\$PLIT\$,NOWRT,NOEXE,2 \CLM_OPRENABLE mismatch\<0> 17694743 SS P.AAB \bad uic in clmrqcb\<0><0> 17694738 SS P.AAD
										5B 5E	0	0000G			00000		.EXTRN .PSECT .ENTRY MOVAB	ASCID_INVALIDRQCB \$CODE\$,NOWRT,2 OPRENABLE_CLM_HANDLER, Save R2,R3,R4,R5,R6,-: 049 R7,R8,R9,R10,R11 DEALLOCATE_RQCB, R11 -2612(SP), SP
								000		52 02	0	08 02 0000°	C59C26F0 F05CFC2	9E 7C DO 91 13 9F 11 BB	00007 0000E 00012 00016 00018 0001E	15:	MOVAB CLRQ MOVL CMPB BEQL PUSHAB BRB PUSHR	CLM, R2 2(R2), #2 1\$ P.AAA 2\$
								000		CF OD CF	C	0000G 04	50 CF AC 02 AE	E8 9F DD FB 04 9F	00027 0002A 0002E 00031 00036 00037	2\$: 3\$:	PUSHR CALLS BLBS PUSHAB PUSHL CALLS RET PUSHAB	
								000)0G)8	57 CF 52 2F AE 50 02		04 04 24 08 08	AE5720557 AE070003	DO DD FB DO	0003A 0003E 00040 00045 00048 00050 00054	1\$: 2\$: 3\$:	RET PUSHAB MOVL PUSHL CALLS MOVL BLBC MOVL CMPB BNEQ CMPW BNEQ CMPB BNEQ	RQCB, R7 R7 #2, FIND_OPERATOR R0, FOUND FOUND, 6\$ 36(R7), OCD OCD, R0 11(R0), #2
								6		A7 03		26 0B	A0 0D A0 13	B1 12 91 12	0005A 0005F 00061 00065	45:	CMPW BNEQ CMPB BNEQ	4\$ 38(R0), 106(R7) 5\$ 11(R0), #3 6\$

OP VO

OP

VO

OPCSOPRENABLE V04-000		B 5 16-Sep-1984 01:41:12 VAX-11 Bliss-32 V4.0-742 14-Sep-1984 12:50:52 [OPCOM.SRC]OPRENABLE.B32;1	Page 20 (3)
\$\frac{50}{54} \frac{A2}{A3} \frac{01}{01}\$ \$\frac{50}{54} \frac{A3}{A3} \frac{01}{01}\$	5A 01 00 6B 6E 650 08 AE 24 A2 332 28 A2 20 AE 28 AE 0000G CF 0000G CF 0000G CF 0000G CF 0000G CF	SC	; 0681 0684 0685 0686 0687 0688 0689 0690 0691 0694 0695 0696 0703 0705 0706 0707 0708 0709 0710 0711 0712 0719 0721 0722 0727 0729 0731
; 734 0732 1 ; 735 0733 1 END ; 736 0734 0 ELUDOI		! End of OPRENABLE	

Page 21 (3)

OP VO

OPCSOPRENABLE V04-000

C 5 16-Sep-1984 01:41:12 14-Sep-1984 12:50:52

VAX-11 Bliss-32 V4.0-742 COPCOM.SRCJOPRENABLE.B32;1

Name

Bytes

Attributes

\$CODE\$

1251 NOVEC, NOWRT, RD , EXE, NOSHR, LCL, REL, 60 NOVEC, NOWRT, RD , NOEXE, NOSHR, LCL, REL, CON, NOPIC, ALIGN(2) CON, NOPIC, ALIGN(2)

Library Statistics

File	Total	Symbols Loaded	Percent	Pages Mapped	Processing Time
_\$255\$DUA28:[SYSLIE]LIB.L32;1 _\$255\$DUA28:[OPCOM.OBJ]OPCOMLIB.L32;1	18619 633	17	9	1000	00:01.8

COMMAND QUALIFIERS

BLISS/CHECK=(FIELD, INITIAL, OPTIMIZE)/LIS=LIS\$:OPRENABLE/OBJ=OBJ\$:OPRENABLE MSRC\$:OPRENABLE/UPDATE=(ENH\$:OPRENABLE)

1251 code + 60 data bytes 00:26.0 01:22.7 1695 Size:

Run Time: Elapsed Time: Lines/CPU Min: : Lexemes/CPU-Min: 18820 : Memory Used: 244 pages : Compilation Complete 0291 AH-BT13A-SE

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